

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently amended): An apparatus for detecting a deviation of a camera from shaking, comprising:

a shaking detector configured to detect a shaking of the camera based upon an output from angular velocity sensors located on camera coordinate axes of the camera;

a calculator configured to calculate rotation angles of each of said coordinate axes based on the output of the angular velocity sensors; and

a deviation correction device including a positionable optical element configured to be repositioned based on the rotation angles calculated by the calculator; and

a rotation regulator configured to rotate an image pickup device around an optical axis of the camera or an axis in parallel with the optical axis.

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Claim 2 (Currently amended): An apparatus for detecting a deviation of a camera from shaking according to claim 1, ~~further comprising:~~

~~an actuator configured to adjust a position of a lens of the camera wherein the~~ positionable optical element is one of a correction lens and a vari-angle prism.

Claim 3 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 1, wherein one of the coordinate axes of the camera coordinates is an optical axis of the camera.

Claim 4 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 3, wherein at least one of the angular velocity sensors is located on the optical axis of the camera.

Claim 5 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 1, further comprising:

a low pass inter configured to reject a fequency band over 20 Hz from outputs of the angular velocity sensors.

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Claim 6 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 4, wherein at least one of the angular velocity sensors is located on a horizontal axis of the camera.

Claim 7 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 5, wherein a first angular velocity sensor is located on an optical axis of the camera to detect deviation in a vertical direction, and a second angular velocity sensor detects deviation in a horizontal direction.

Claim 8 (Canceled).

Claim 9 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 3, further comprising:

a low pass filter configured to reject a frequency band over 20 Hz from outputs of the angular velocity sensors.

Claim 10 (Currently amended): An apparatus for detecting a deviation of a camera from shaking according to claim [[9]] 1, wherein the deviation correcting device adjusts a

position of a lens as the positionable optical element in an optical system of the camera based on the ~~tilt~~ rotation angles calculated by the calculator.

Claim 11 (Currently amended): An apparatus for detecting a deviation of a camera from shaking according to claim [[9]] 1, wherein the deviation correcting device adjusts a vari-angle of a vari-angle prism located on an optical axis of the camera as the positionable optical element based on the ~~tilt~~ rotation angles calculated by the calculator.

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Claim 12 (Currently amended): An apparatus for detecting a deviation of a camera from shaking according to claim [[9]] 1, wherein the deviation correcting device adjusts a position of an imaging sensor of the camera based on the tilt angles calculated by the calculator.

Claim 13 (Currently amended): An apparatus for detecting a deviation of a camera from shaking, comprising:

detecting means for detecting a shaking of the camera based upon an output from angular velocity sensor means located on camera coordinate axes of the camera;

calculator means for calculating tilt angles of each of said coordinate axes based on the output of the angular velocity sensor means; and

deviation correcting means including a positionable optical element for repositioning based on a detected shaking of the camera; and

rotation regulator means for rotating an image pickup means around an optical axis of the camera or an axis in parallel with the optical axis.

Claim 14 (Currently amended): An apparatus for detecting a deviation of a camera from shaking according to claim 13, ~~further comprising:~~

~~actuator means for adjusting a position of a lens of the camera. wherein the~~  
positionable optical element is one of a correction lens and a vari-angle prism.

Claim 15 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 14, further comprising:

low pass filter means for rejecting a frequency band over 20 Hz from outputs of the angular velocity sensor means.

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Claim 16 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 15, wherein one of the coordinate axes of the camera coordinates is an optical axis of the camera.

Claim 17 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 16, wherein at least one of the angular velocity sensors is located on an axis in parallel with the optical axis of the camera.

Claim 18 (Original): An apparatus for detecting a deviation of a camera from shaking according to claim 17, wherein one of the angular velocity sensor means is located on a horizontal axis of the camera coordinate.

Claim 19 (Original): An apparatus for detecting deviation of a camera from shaking according to claim 18, wherein a first pair of the angular velocity sensor means is located on

the optical axis of the camera to detect deviation in a vertical direction, and a second pair of the angular velocity sensor means detects deviation in a horizontal direction.

Claim 20 (Canceled).

Claim 21 (Canceled).

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Claim 22 (Currently amended): An apparatus for detecting a deviation of a camera from shaking according to claim [[20]] 13, wherein the deviation correcting means adjusts a position of a lens means as the positionable optical element in an optical system of the camera based on the tilt angles calculated by the calculator means.

Claim 23 (Currently amended): An apparatus for detecting a deviation of a camera from shaking according to claim [[20]] 13, wherein the deviation correcting means adjusts a vari-angle of a vari-angle prism means located on an optical axis of the camera as the positionable optical element based upon the tilt angles calculated by the calculator means.

Claim 24 (Currently amended): An apparatus for detecting a deviation of a camera from shaking according to claim [[20]] 13, wherein the deviation correcting means adjusts a position of an imaging means of the camera based on the tilt angles calculated by the calculator means.

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IN THE DRAWINGS

The attached sheet of drawings includes changes to Fig. 12. This sheet, which includes Figs. 11-13, replaces the original sheet including Figs. 11-13.

Attachment: Replacement Sheet